

**Abstract:**

An improved radio frequency diplexer is distinguished *inter alia*, for example, by the following features:

- in addition to the resonators (R41, R41'; R43, R43') which are associated either with the transmission path or with the reception path, at least two additional resonators (R42, R42') are also provided,
- the at least two additionally provided resonators (R42, R42') form an interconnection resonator pair (R42, R42') which are strongly coupled to one another, and
- both the transmission path and the reception path are coupled to the second additional resonator (R42'), or
- both the transmission path and the reception path are coupled to the first additional resonator (R42) which is provided for inputting to/outputting from the common signal path (A).

(Figure 1)